L4

Welcome to STN International! Enter x:x => file caplus => e raaijmakers harry/au 4 RAAIJMAKERS HANS/AU 3 RAAIJMAKERS HANS C A/AU E3 1 --> RAAIJMAKERS HARRY/AU 1 --> RAAIJMAKERS HARRY/AU

10 RAAIJMAKERS HARRY W C/AU

1 RAAIJMAKERS HENDRICUS WILHELMUS CAROLINA/AU

8 RAAIJMAKERS HENRICUS WILHELMUS CAROLINA/AU

6 RAAIJMAKERS I J/AU

1 RAAIJMAKERS I J M/AU

9 RAAIJMAKERS I J M M/AU

56 RAAIJMAKERS IVO/AU

19 RAAIJMAKERS IVO J/AU

11 RAAIJMAKERS IVO J M M/AU E4E5 E6 E7 E8 E9 E10 E11 E12 => s e3-e41 "RAAIJMAKERS HARRY"/AU 10 "RAAIJMAKERS HARRY W C"/AU 11 ("RAAIJMAKERS HARRY"/AU OR "RAAIJMAKERS HARRY W C"/AU) L1 => e neeleman ernst/au 6 NEELEMAN CHRIS/AU E1E2 8 NEELEMAN E/AU 6 --> NEELEMAN ERNST/AU E3 3 NEELEMAN J F/AU
2 NEELEMAN JAN/AU
1 NEELEMAN JOHN/AU
6 NEELEMAN L/AU
27 NEELEMAN LYDA/AU
5 NEELEMAN R/AU
3 NEELEMAN RONALD/AU
1 NEELEMAN STEPHEN D/AU
3 NEELEMANS L/AU E43 NEELEMAN J F/AU E5 Ε6 E7 E8 E9 E10 E11 E12 => s e2-e38 "NEELEMAN E"/AU 6 "NEELEMAN ERNST"/AU 14 ("NEELEMAN E"/AU OR "NEELEMAN ERNST"/AU) L2=> s 11 or 12 24 L1 OR L2 L3 => 13 and (inulin or carboxyalkyl?) 11186 INULIN 131 INULINS 11205 INULIN (INULIN OR INULINS) 5200 CARBOXYALKYL?

6 L3 AND (INULIN OR CARBOXYALKYL?)

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:722443 CAPLUS

DOCUMENT NUMBER: 149:55936

TITLE: Sugar phosphonates

INVENTOR(S):

PATENT ASSIGNEE(S): Koninklijke Cooeperatie Cosun U.A., Neth.; Thermphos

Trading GmbH

SOURCE: Eur. Pat. Appl., 14pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: Enalish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.				KIN:	D	DATE		,	APPL	ICAT	ION 1	NO.		D.	ATE	
EP	1932	 858			A1	_	2008	0618		EP 2	006-	2551	7		2	0061	211
	R:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,
		IS,	ΙT,	LI,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	AL,
		BA,	HR,	MK,	RS												
WC	2008	0716	93		A2		2008	0619		WO 2	007-	EP63	688		2	0071	211
WC	2008	0716	93		А3		2008	0821									
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,	CA,
		CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,	FΙ,
		GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,
		KM,	KN,	KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	ME,
		MG,	MK,	MN,	MW,	MX,	MY,	MΖ,	NA,	NG,	NΙ,	NO,	NΖ,	OM,	PG,	PH,	PL,
		PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	ΤJ,	TM,	TN,
		TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW				
	RW:	AT,	BE,	ВG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,
		IS,	ΙT,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,
		GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
		BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑP,	EA,	EP,	OA					
PRIORIT	Y APP	LN.	INFO	.:						EP 2	006-	2551	7	i	A 2	0061	211

MARPAT 149:55936 OTHER SOURCE(S):

Novel sugar phosphonates are disclosed containing a sugar moiety selected from selected polysaccharides, saccharides which are free of aldehyde and keto groups, sugar alcs. and monosaccharides and a phosphonate moiety selected from an alkylphosphonate and an alkylamino phosphonate. The novel compds. can be used beneficially in numerous established "phosphonate" applications including textile treatment, water treatment and oil recovery. Thus, 8.55 g of sucrose were mixed with 100 g of 50% aqueous NaOH solution, 25 g of water and 0.2 g of KI. To this solution was added under stirring 7.037 g of 3-chloropropyliminobis(methylenephosphonic acid). The mixture was heated under reflux for 10 h. 31P NMR anal. showed that 66% of the propyliminobis(methylenephosphonic acid) moiety was attached to sucrose and that 28% of the 3-chloroiminobis(methylenephosphonic acid) had been converted to the corresponding hydroxy derivative with about 3% of the chloroazetididium equivalent of the 3-chloropropyliminobis(methylenephosphonic acid).

REFERENCE COUNT: THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:692116 CAPLUS

DOCUMENT NUMBER: 143:171858 TITLE: Method for the manufacture of

carboxyalkylinulin

INVENTOR(S): Raaijmakers, Harry W. C.; Neeleman,

Ernst

PATENT ASSIGNEE(S): Koninklijke Cooeperatie Cosun U. A., Neth.; Solutia

Europe N. V./S. A.

SOURCE: Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.																	
	1559						2005										0040	
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	₹, I	Τ,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, T	R,	BG,	CZ,	EE,	HU,	SK	
AU	2005	2093.	36		A1		2005	0811		AU	200	5-2	2093	36		2	0050	128
CA	2555	205			A1		2005	0811		CA	200	5-2	2555	205		2	0050	128
WO	2005	0732	56		A1		2005	0811		WO	200	5-E	3E11			2	0050	128
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB	В, В	G,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ	Z, E	С,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	S, J	Ρ,	KE,	KG,	KP,	KR,	KΖ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG	5, M	Κ,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU	J, S	С,	SD,	SE,	SG,	SK,	SL,	SY,
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US	S, U	Z,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD), S	L,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT	Г, В	Ε,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS	5, I	Τ,	LT,	LU,	MC,	NL,	PL,	PT,
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG	G, C	I,	CM,	GΑ,	GN,	GQ,	GW,	ML,
		MR,	ΝE,	SN,	TD,	ΤG												
EP	1713	831			A1		2006	1025		EΡ	200	5-	7002	20		2	0050	128
EP	1713	831			В1		2008	0409										
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	R, I	Τ,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	FΙ,	RO,	CY,	TR,	BG,	CZ	Z, E	Ε,	HU,	PL,	SK,	IS		
	1914						2007											
JP	2007						2007	1115		JΡ	200	6-5	5497	94		2	0050	128
ΑT	3917	31			Τ		2008	0415				-					0050	128
ES	2307	140			Т3		2008	1116		ES	200	5-	7002	20		2	0050	128
US	2007	0225	483		A1		2007	0927		US	200	6-5	5878	78		2	0060	727
IN	2006	CN03	143		Α		2007	0608		IN	200	6-0	CN31	43		2	0060	830
RIT	Y APP	LN.	INFO	.:						EP	200	4-	7528	0		A 2	0040	130
										WO	200	5-E	3E11		1	W 2	0050	128

AB The method comprises steps of: preparing an aqueous medium containing a haloalkylcarboxylate, adding to the resulting dispersion under substantially neutral pH conditions an <u>inulin</u>, heating the mixture to a temperature in the range of 60-90° and proceeding with the reaction at alkaline conditions, pH 8-12, while simultaneously adding addnl. halogenoalkylcarboxylate and alkali hydroxide. The

carboxyalkylinulin so formed is recovered in a known manner.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1999:26490 CAPLUS

DOCUMENT NUMBER: 130:168584

TITLE: Modification of \underline{inulin} with amidoxime groups

and coordination with copper(II) ions

AUTHOR(S): Verraest, Dorine L.; Petersa, Joop A.; Kuzeeb, Hennie

C.; Raaijmakers, Harry W. C.; Van Bekkum,

Herman

CORPORATE SOURCE: Laboratory of Organic Chemistry and Catalysis, Delft

University of Technology, Delft, 2628 BL, Neth.

SOURCE: Carbohydrate Polymers (1998), 37(3), 209-214

CODEN: CAPOD8; ISSN: 0144-8617

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB <u>Inulin</u> modified with amidoxime groups was prepared by reaction of the nitrite groups of O-(cyanoethyl)<u>inulin</u> with hydroxylamine.

This material has good chelating properties for Cu(II) ions. The coordination of the <u>inulin</u> derivative with Cu(II) has been studied using potentiometry, polarimetry and 170 NMR spectroscopy. At low molar

ratio of Cu(II):amidoxime groups (ρ L < 0.25), stable complexes are formed. The optical rotation measurements indicate folding of the backbone to form intramol. complexes. At higher ρ values, no addnl. Cu(II) ions are bound by the polymeric ligand. Presumably, no defolding

to form 1:1 Cu(II)-amidoxime complexes occurs.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:268715 CAPLUS

DOCUMENT NUMBER: 128:294969

ORIGINAL REFERENCE NO.: 128:58467a,58470a

TITLE: Synthesis of carbamoylethyl inulin and

carboxyethyl inulin

AUTHOR(S): Verraest, Dorine L.; Raaijmakers, Harry W. C.

; Kuzee, Hennie C.; Peters, Joop A.; Van Bekkum,

Herman

CORPORATE SOURCE: Faculty Chemical Technology Material Science,

Laboratory Organic Chemistry Catalysis, Delft University Technology, Delft, 2600 GA, Neth.

SOURCE: Starch/Staerke (1998), 50(2-3), 98-100

CODEN: STARDD; ISSN: 0038-9056

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal LANGUAGE: English

AB Inulin etherified with carbamoylethyl groups and with

carboxyethyl groups was prepared by hydrolysis of O-(cyanoethyl)

inulin.

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:550155 CAPLUS

DOCUMENT NUMBER: 127:220890

ORIGINAL REFERENCE NO.: 127:43057a,43060a

TITLE: Distribution of substituents in O-carboxymethyl and

O-cyanoethyl ethers of inulin

AUTHOR(S): Verraest, Dorine L.; Peters, Joop A.; Kuzee, Hennie

C.; Raaijmakers, Harry W. C.; van Bekkum,

Herman

CORPORATE SOURCE: Lab. Organic Chem. Catalysis, Delft Univ. Technology,

Delft, 2628, Neth.

SOURCE: Carbohydrate Research (1997), 302(3-4), 203-212

CODEN: CRBRAT; ISSN: 0008-6215

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The distribution of substituents in O-carboxymethyl and O-cyanoethyl

ethers of <u>inulin</u> was studied using 13C NMR spectroscopy and HPLC anal. For both types of <u>inulin</u> derivs., the distribution of substituents can be described by the statistical model of Spurlin, showing that the substituents are uniformly distributed along the <u>inulin</u> chains and that the reactivities of the hydroxdyl groups in the sugar units are independent upon substitution of a neighboring hydroxyl group. The 4-position of the D-fructofuranoxyl units was found to be the most reactive in the etherifications.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:134959 CAPLUS

DOCUMENT NUMBER: 120:134959

ORIGINAL REFERENCE NO.: 120:23799a,23802a

TITLE: Preparation and catalytic hydrogenolysis of some

 ω -haloalkyl β -D-fructopyranosides; a convenient route to simple alkyl

 β -D-fructopyranosides

AUTHOR(S): Raaijmakers, Harry W. C.; Eveleens, Susan

M.; Arnouts, Esther G.; Zwanenburg, Binne; Chittenden,

Gordon J. F.

CORPORATE SOURCE: NSR Cent. Mol. Struct. Des. Synth., Univ. Nijmegen,

Nijmegen, 6525 ED, Neth.

SOURCE: Recueil des Travaux Chimiques des Pays-Bas (1993),

112(9), 511-14

CODEN: RTCPA3; ISSN: 0165-0513

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 120:134959

AB The acid-catalyzed reactions of D-fructose, sucrose and \underline{inulin} with $\omega\text{-haloalkyl}$ alcs. yield the corresponding

 $\beta\text{-D-fructopyranosides.}$ Catalytic hydrogenolysis of these glycosides provides a simple route to some crystalline alkyl $\beta\text{-D-fructopyranosides}$ of potential biol. interest.

=> inulin and (carboxymethyl? or carboxyalkyl?)

11186 INULIN 131 INULINS 11205 INULIN

(INULIN OR INULINS)

60526 CARBOXYMETHYL? 5200 CARBOXYALKYL?

L5 206 INULIN AND (CARBOXYMETHYL? OR CARBOXYALKYL?)

=> 15 and prep/rl

4745611 PREP/RL

L6 46 L5 AND PREP/RL

=> d 16 1-46 ibib abs

L6 ANSWER 1 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:217255 CAPLUS

DOCUMENT NUMBER: 150:290087

TITLE: Application of carboxymethyl inulin

compound as hygroscopic and moisturizing agent

INVENTOR(S): Guo, Zhanyong; Liu, Jingli; Dong, Fang; Miao,

Fengping; Yang, Shaoli

PATENT ASSIGNEE(S): Yantai Institute of Coastal Zone Research for

Sustainable Development, Peop. Rep. China

SOURCE: Faming Zhuanli Shenging Gongkai Shuomingshu, 7pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

CN 101366686 A 20090218 CN 2008-10140181 20080905

PRIORITY APPLN. INFO.: CN 2008-10140181 20080905

This invention relates to the application of carboxymethyl
inulin
inulin
inulin
moisturizing ability, and is promising in replacing expensive hyaluronic acid as hygroscopic and moisturizing agent used in cosmetics. The synthesis method of carboxymethyl
inulin
compound
inulin
compound
inulin
compound
synthesis

L6 ANSWER 2 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1281869 CAPLUS

DOCUMENT NUMBER: 149:515776

TITLE: Inhibitory Effects of Multicomponent,

Phosphonate-Grafted, Zwitterionic Chitosan Biomacromolecules on Silicic Acid Condensation

AUTHOR(S): Demadis, Konstantinos D.; Ketsetzi, Antonia; Pachis,

Konstantinos; Ramos, Viviana M.

CORPORATE SOURCE: Crystal Engineering, Growth and Design Laboratory,

Department of Chemistry, University of Crete,

Heraklion, Crete, GR-71003, Greece

SOURCE: Biomacromolecules (2008), 9(11), 3288-3293

CODEN: BOMAF6; ISSN: 1525-7797

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AB This article reports the inhibitory effects of phosphonated chitosan (PCH, synthesized from chitosan (CHS) by a Mannich-type reaction) on the in vitro silicic acid condensation. In particular, the ability of PCH to retard silicic acid condensation in aqueous supersatd. solns. at circumneutral pH is studied. Furthermore, the effect of anionic carboxymethyl inulin (CMI) polyelectrolyte on the inhibitory activity of PCH is systematically studied. It was discovered that when PCH is added in dosages up to 150 ppm, it can inhibit silicic acid condensation, thereby maintaining soluble silicic acid up to 300 ppm (for 8 h, from a 500 ppm initial stock solution). The addition of CMI to working solns. that already contain PCH can further enhance the inhibitory action of PCH. A combination of 150 ppm PCH and 100 ppm CMI maintains 400 ppm soluble silicic acid for 8 h. PCH and CMI combinations also affect colloidal silica particle morphol.

REFERENCE COUNT: 83 THERE ARE 83 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1415187 CAPLUS

DOCUMENT NUMBER: 148:39697

TITLE: Suspension stabilizer for gastrointestinal contrast

agents, and gastrointestinal contrast agents

containing the stabilizer

INVENTOR(S):
Sato, Keiichi

PATENT ASSIGNEE(S): Daiichi Koqyo Seiyaku Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ______ JP 2007320928 _____ ____ A 20071213 JP 2006-154603 20060602 PRIORITY APPLN. INFO.: JP 2006-154603 AB The invention relates to a stabilizer for a suspension containing a gastrointestinal contrast agent, wherein the agent contains a carboxymethyl inulin metal salt with an ether degree 0.7-1.5 and a viscosity of the 10 % solution of the anhydrous agent 5-20 mPa·s. A gastrointestinal contrast agent suspension containing the stabilizer having improved suspension stability with minimized viscosity variation is also disclosed. For example, carboxymethyl inulin sodium salt was prepared, and its 4.8 g was dissolved in water 144 mL. Then, barium sulfate 240 g was added to the solution, and dispersed to obtain a suspension (sol) composition

L6 ANSWER 4 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:455592 CAPLUS

DOCUMENT NUMBER: 146:447654

TITLE: Discoloration-free, oil-in-water emulsion-type

cosmetics containing dibenzoylmethanes and their use

for sunscreens

INVENTOR(S): Omori, Takashi; Nasu, Akio
PATENT ASSIGNEE(S): Shiseido Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

----JP 2007106714 A 20070426 JP 2005-300653 20051014
PRIORITY APPLN. INFO:: JP 2005-300653 20051014

AB Title cosmetics contain hydrophobized powders, dibenzoylmethanes, HOCH2CH(OH)CH2O[CH2CH[O(AO)nR1]CH2O]mCH2CH(OH)CH2OH (1 ≤ m ≤ 4; R1 = C1-4 hydrocarbyl, H; AO = C3-4 oxyalkylene; 1 ≤ m + n ≤ 200), and A(O2CNHR1)s (A = fructose residue; R1 = C3-22 hydrocarbyl; s = 0.10-2.0). Thus, sunscreen cream containing Inutec SP 1 (inulin N-alkylurethane), hydrophobized TiO2, hydrophobized ZnO, 4-tert-butyl-4'-methoxydibenzoylmethane, polyoxybutylene Me triglyceryl ether, octyl p-methoxycinnamate, Me Ph polysiloxane, etc., was stored at 50° for 1 mo to show no discoloration. The cream also showed good dispersion stability, emulsion stability, and moisturizing effect with no stickiness.

L6 ANSWER 5 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:220916 CAPLUS

DOCUMENT NUMBER: 146:253937

TITLE: Efficient manufacture of carboxymethyl

inulin metal salts

INVENTOR(S): Sato, Keiichi; Hayashi, Takayuki

PATENT ASSIGNEE(S): Daiichi Kogyo Seiyaku Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

----JP 2007051249 A 20070301 JP 2005-238835 20050819
PRIORITY APPLN. INFO:: JP 2005-238835 20050819

The manufacturing method includes treating <u>inulin</u> with 0.5-10 mol (based on 1 mol D-fructose units) metal compds. in hydrous organic solvents and etherifying so as to form <u>carboxymethyl</u> ethers. Thus, dissolving 4.2 mol NaOH in 20/80 mixture of water and iso-Pr alc., adding <u>inulin</u> (Frutafit HD), reacting, adding 2.0 mol monochloroacetic acid, and etherifying gave a <u>carboxymethyl</u> <u>inulin</u>

sodium salt showing viscosity of 5% aqueous solution 94 mPa-s and degree of substitution 1.45.

L6 ANSWER 6 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:702931 CAPLUS

DOCUMENT NUMBER: 145:123155

TITLE: Enzyme production by fermentation of immobilized or

insolubilized substrates

INVENTOR(S): Call, Hans-Peter

PATENT ASSIGNEE(S): Call, Krimhild, Germany

SOURCE: Ger. Offen., 9 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005001331	A1	20060720	DE 2005-102005001331	20050111
PRIORITY APPLN. INFO.:			DE 2005-102005001331	20050111

AB A new procedure for cultivation of microorganisms in either submerged or sold-state fermns. is provided. The technique is characterized by the fact that the active soluble substrates are made insol. either phys. or

modification by heating, crosslinking or encapsulation. The immobilized substrate then slowly becomes available to the microorganism during the fermentation as it degrades insol. substrate.

L6 ANSWER 7 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:344145 CAPLUS

DOCUMENT NUMBER: 145:243693

TITLE: Purification and biochemical properties of a new

thermostable xylanase from symbiotic fungus,

Termitomyces sp

AUTHOR(S): Faulet, Betty Meuwiah; Niamke, Sebastien; Gonnety,

Jean Tia; Kouame, Lucien Patrice

CORPORATE SOURCE: Laboratoire de Biochimie et Technologie des Aliments

de l'Unite de Formation et de Recherche en Sciences et

Technologie des Aliments de l'Universite d'Abobo-Adjame, Abidjan, 02, Cote d'Ivoire

SOURCE: African Journal of Biotechnology (2006), 5(3), 273-282

CODEN: AJBFAH; ISSN: 1684-5315

URL: http://www.academicjournals.org/AJB/PDF/pdf2006/2

Feb/Faulet%20et%20al.pdf

PUBLISHER: Academic Journals

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

AB A endo-1,4- β -xylanase (I) was purified from the symbiotic fungus Termitomyces sp. of the termite Macrotermes subhyalinus by DEAE-Sepharose CL-6B and CM-Sepharose CL-4B chromatog., gel-filtration on Sephacryl S-200 HR, and chromatog. on phenyl-Sepharose CL-4B. The I preparation was shown to be homogeneous by PAGE. Purified I displayed 2 protein bands on SDS-PAGE and its mol. weight was estimated to 80-87 kDa. I exhibited maximum activity

at

65-70° and pH 5.6, and it retained >80% of its activity in the pH range of 5.0-6.0. I was stable for a long time period at temps. of \leq 50° and for 1 h at 60°. Although I exhibited lower

carboxymethylcellulase
substituted xylans, xylobiose, inulin, starch, polygalacturonic
acid, or p-nitrophenyl glycosides. The I kinetic parameters indicated
higher efficiency in the hydrolysis of beechwood xylan and birchwood
xylan. I was stimulated by K+, Mn2+, and dithiol-reducing agents, and was
sensitive to Cu2+, Fe2+, Zn2+, and detergents. I activity was observed in
presence of urea up to 1% concentration I could also be used in the presence

of

organic solvents such as acetone or dioxane (5%) without loss of activity. The properties of I make it potentially useful for biotechnol.

applications and for biobleaching in the pulp and paper industry.

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:170539 CAPLUS

DOCUMENT NUMBER: 144:260098

TITLE: Cosmetic compositions comprising new amphoteric

polysaccharide compounds with a sulfonate group

INVENTOR(S): Philippe, Michel
PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: Fr. Demande, 30 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PAT	PATENT NO. KIND)	DATE			APPL	ICAT	ION I	NO.		D	ATE	
FR	2874	380			A1		2006	0224		FR 2	004-	8996			2	00408	319
FR	2874.	380			В1		2006	1124									
WO	2006	0183	27		A2		2006	0223	,	WO 2	005-	EP99	91		2	00508	319
WO	2006	0183	27		АЗ		2006	0504									
	W:	ΑE,	AG,	AL,	ΑM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KP,	KR,	KΖ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,
		NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,
		SL,	SM,	SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,
		ZA,	ZM,	ZW													
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	ΙΤ,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM 20070502 EP 2005-798113 EP 1778731 A2 20050819 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR JP 2008514736 Т 20080508 JP 2007-526408 US 20080124294 Α1 20080529 US 2007-660379 20070918 PRIORITY APPLN. INFO.: FR 2004-8996 A 20040819 US 2004-612178P P 20040923 WO 2005-EP9991 W 20050819 New amphoteric polysaccharide compds. are claimed for use in cosmetics AΒ having a sulfonate group (An-X-O)n-P-(O-Z-Sulfo)p-(O(Y)r-CAT)m; wherein P is a polysaccharide chain; X, Y and Z are a C1-12 divalent, linear or substituted, saturated or unsatd., possibly hydroxylated hydrocarbon group and contain at least an ether and/or amine group in the hydrocarbon chain, or a Si(R)2-[O-Si(R)2]q-A-; r is 0 or 1; An is -C(O)OV, CAT represents a quaternary ammonium group or a cationic polymeric chain obtained by grafting and polymerization of ethylene monomers carrying a quaternary ammonium group, Sulfo represents a sulfonic or sulfonate group; and n, m and p are such as the total degree of substitution of polysaccharide does not exceed 2. Sodium CM-cellulose was sulfonated and quaternized. Formulation of a shampoo containing 0.5% of above compound is disclose. REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 9 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN 2006:170531 CAPLUS ACCESSION NUMBER: 144:260097 DOCUMENT NUMBER: TITLE: Cosmetic use of amphoteric polysaccharides with cationic polymer chain(s) INVENTOR(S): Philippe, Michel PATENT ASSIGNEE(S): L'Oreal, Fr. SOURCE: Fr. Demande, 24 pp. CODEN: FRXXBL DOCUMENT TYPE: Patent LANGUAGE: French FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

PATENT NO			KIN						_	ION :				ATE	
FR 287431 FR 287431			A1		2006	0224								0040	
WO 200601 WO 200601	322		A2		2006	0223		WO 2	005-	EP99	85		2	0050	818
W: A:	_		_				BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
C	1, CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
G:	G, GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚM,	KP,	KR,	KΖ,
L	C, LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,
N	G, NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,
S	, SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,
Z	A, ZM,	ZW													
RW: A	, BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
I	S, IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	BJ,
C:	cG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG,	BW,	GH,
Gl	1, KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
K	G, KZ,	MD,	RU,	ТJ,	TM										
EP 177836	2		A2		2007	0502		EP 2	005-	7913	64		2	0050	818
R: A	, BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
I	S, IT,	LI,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR	

 JP 2007-526403
 20050818

 US 2007-660381
 20071113

 FR 2004-8997
 A 20040819

 US 2004-612170P
 P 20040923

 WO 2005-EP9985
 W 20050818

 JP 2008516891 Τ 20080522 US 20080260674 A1 20081023 PRIORITY APPLN. INFO.:

AB Polysaccharides with polymeric cationic chains(s), obtained by grafting and polymerization of ethylenic monomers with anionic polysaccharides in

of a catalytic system comprising potassium permanganate and sulfuric acid are claimed for use in cosmetics. Sodium CM-cellulose was reacted with diallyldimethylammonium chloride to obtain the invention polymer.

Formulation of a shampoo containing 0.5% of above compound is disclosed. THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 5 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 10 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN L6

ACCESSION NUMBER: 2006:167839 CAPLUS

DOCUMENT NUMBER: 144:239243

TITLE: Cosmetic use of polysaccharide containing nonpolymeric

siloxane graft(s) Philippe, Michel

INVENTOR(S):

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	PATENT NO WO 2006018323				KIN	D i	DATE			APPL	ICAT	ION I	.OV		D.	ATE	
WO	2006	 0183:	23		 A1	_	 2006	0223	1	====: WO 2	 005-1	EP99:	 86		2	 0050	 818
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KP,	KR,	KΖ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,
		NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,
		SL,	SM,	SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,
		ZA,	ZM,	ZW													
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	ΙΤ,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	$\mathrm{ML}_{{}_{\!{}^{\prime}}}$	MR,	NE,	SN,	TD,	ΤG,	BW,	GH,
		GM,	KΕ,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	AΖ,	BY,
		,	,	,	RU,	,											
	2874.				A1		2006			FR 2	004-	8995			2	0040	819
	2874.				В1		2006										
	1778						2007			EP 2	005-	7911:	28		2	0050	818
EP	1778				В1		2008										
	R:	,	,	,	,	,	CZ,	,	,	,	,	,	,	,	,	,	IE,
~		,					LV,	,	,	,	,	,	,	,	,		0.4.0
	1010				A		2007				005-						
	2008						2008				007-						
	4110 2313	-			T3		2008 2009				005-1 005-1						
	2007									-	005- 007-1	-	-				-
	2007.						2007				007-		-		_	0070	
	ZUU7 Y APP:				AI		2007	1129			007-		00			0070	
OIXII.	L AFF.	⊔ 1 N • .	T 1/1 . O	• •							004-					0040	
											005-1			I		0050	
										2		ur)) '		,			0 1 0

non-polymer siloxane graft(s) that may be obtained by reacting a polysaccharide and a siloxane compound especially for the cosmetic treatment of keratin materials. The invention also relates to compns. comprising the said polysaccharide compds. in a cosmetically acceptable medium, and also to certain novel polysaccharide compds. containing non-polymer siloxane graft(s). Hydroxyethyl cellulose was dispersed in ethanol/water mixture, aminopropyltriethoxysilane was added to the mixture and the precipitate ained

was isolated by centrifugation and dried. This compound was used at 0.5% in shampoo formulations.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 11 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:692116 CAPLUS

DOCUMENT NUMBER: 143:171858

TITLE: Method for the manufacture of

carboxyalkylinulin

INVENTOR(S): Raaijmakers, Harry W. C.; Neeleman, Ernst

PATENT ASSIGNEE(S): Koninklijke Cooeperatie Cosun U. A., Neth.; Solutia

Europe N. V./S. A.

SOURCE: Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.											TION				ATE	
	1559															0040	130
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	R, IT	, LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, TR	, BG,	CZ,	EE,	HU,	SK	
AU	2005	2093	36		A1		2005	0811		AU	2005	-2093	36		2	0050	128
CA	2555	205			A1		2005	0811		CA	2005	-2555	205		2	0050	128
WO	2005	0732	56		A1		2005	0811		WO	2005	-BE11			2	0050	128
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	ΒA,	BB	B, BG	, BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ	E, EC	, EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	, JP	, KE,	KG,	KP,	KR,	KΖ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG	, MK	, MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NΖ,	OM,	PG,	PH,	PL,	PT,	RO,	RU	, SC	, SD,	SE,	SG,	SK,	SL,	SY,
		ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US	, UZ	, VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:											, SZ,					
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT	, BE	, BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	IS	, IT	LT,	LU,	MC,	NL,	PL,	PT,
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG	G, CI	, CM,	GA,	GN,	GQ,	GW,	ML,
		MR,	NE,	SN,	TD,	ΤG											
ΕP	1713	831			A1		2006	1025		ΕP	2005	-7002	20		2	0050	128
EP	1713	831			В1		2008	0409									
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	R, IT	, LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	FΙ,	RO,	CY,	TR,	ВG,	CZ	, EE	, HU,	PL,	SK,	IS		
CN	1914	230			Α		2007	0214		CN	2005	-8000	3727		2	0050	128
JР	2007	5326	98		Τ		2007	1115		JΡ	2006	-5497	94		2	0050	128
AT	3917	31			Τ		2008	0415		ΑT	2005	-7002	20		2	0050	128
ES	2307	140			Т3		2008	1116		ES	2005	-7002	20		2	0050	128
US	2007	0225	483		A1		2007	0927		US	2006	-5878	78		2	0060	727
IN	2006	CN03	143		Α		2007	0608		IN	2006	-CN31	43		2	0060	830
RIT	Y APP	LN.	INFO	.:						EP	2004	-7528	0		A 2	0040	130
										WO	2005	-BE11		1	W 2	0050	128

AB The method comprises steps of: preparing an aqueous medium containing a

haloalkylcarboxylate, adding to the resulting dispersion under substantially neutral pH conditions an \underline{inulin} , heating the mixture to a temperature in the range of $60-90^{\circ}$ and proceeding with the reaction at alkaline conditions, pH 8-12, while simultaneously adding addnl. halogenoalkylcarboxylate and alkali hydroxide. The

carboxyalkylinulin so formed is recovered in a known manner.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:780260 CAPLUS

DOCUMENT NUMBER: 141:273630

TITLE: Gene and protein sequences for fructosyltransferases

derived from Lactobacillus reuteri and their use in

producing fructans

INVENTOR(S): Van Hijum, Sacha Adrianus Fokke Taco; Van

Geel-Schutten, Gerritdina Hendrika; Dijkhuizen,

Lubbert; Rahaoui, Hakim

PATENT ASSIGNEE(S): Nederlandse Organisatie Voor Toegepast

Natuurwetenschappelijk Onderzoek TNO, Neth.

SOURCE: U.S. Pat. Appl. Publ., 39 pp., Cont.-in-part of U.S.

Pat. Appl. 2002 127,681.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040185537	A1	20040923	US 2004-791799	20040304
US 6635460	B1	20031021	US 2000-604958	20000628
US 20020127681	A1	20020912	US 2001-995587	20011129
US 6730502	B2	20040504		
PRIORITY APPLN. INFO.:			EP 2000-201872	A 20000525
			US 2000-604958	A2 20000628
			US 2001-995587	A2 20011129

The present invention describes two novel proteins having fructosyltransferase activity. Both enzymes are derived from lactobacilli, which are food-grade micro-organisms with the Generally Recognized As Safe (GRAS) status. Specifically, provided are gene and protein sequences for the novel fructosyltransferases from Lactobacillus reuteri. One of the enzymes is an inulosucrase which produces a high mol. weight (>10 Da) fructan containing (2-1) linked fructosyl units and fructo-oligosaccharides, while the other is a levansucrase which produces a fructan containing (2-6) linked fructosyl units. According to the invention lactobacilli capable of producing an inulin and/or a levan and/or fructo-oligosaccharides using one or both of the fructosyltransferases can be used as a probiotic or a symbiotic. The invention thus pertains to the enzymes, to DNA encoding them, to recombinant cells containing such DNA and to their use in producing fructans.

L6 ANSWER 13 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:568617 CAPLUS

DOCUMENT NUMBER: 139:121224

TITLE: Method for producing metallic and ceramic foam and

hollow shapes using biogel forming gelling agents on

sacrificial support

INVENTOR(S): Cooymans, Jozef; De Wilde, Anne-Marie; Thijs, Ivo;

Mullens, Steven; Snijkers, Frans; Luyten, Jan

PATENT ASSIGNEE(S): "Vlaamse Instelling Voor Technologisch Onderzoek",

Afgekort "V.I.T.O.", Belg.

Eur. Pat. Appl., 13 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PA'	TENT	NO.			KIN)	DATE		-	APPL:	ICAT	ION I	. O <i>V</i>		D	ATE	
						-									_		
EP	1329	438			A1		2003	0723		EP 20	003-	4470	09		2	0030	114
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
EP	1359	131			A1		2003	1105		EP 20	002-	4470	76		2	0020	426
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR						
PRIORIT	Y APP	LN.	INFO	.:						EP 20	002-	4470	06	i	A 2	0020	114

EP 2002-447076 A 20020426 The present invention is related to a method for producing ceramic hollow shapes, comprising the following steps: preparation of a stable ceramic powder

slurry comprising a gelling agent, with predefined rheol. properties; providing sacrificial support material, Coating said support material with said ceramic slurry; a drying step; and an optional burning step and/or a presintering step depending on the sacrificial support material.

REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS 6 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 14 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:696558 CAPLUS

137:231480 DOCUMENT NUMBER:

Novel fructosyltransferases and their use in TITLE:

recombinant probiotic lactobacilli

INVENTOR(S): Van Hijum, Sacha Adrianus Fokke Taco; Van

Geel-Schutten, Gerritdina Hendrika; Dijkhuizen,

Lubbert; Rahaoui, Hakim

Nederlandse Organisatie Voor PATENT ASSIGNEE(S):

Toegepast-Natuurwetenschappelijk Onderzoek TNO, Neth.

U.S. Pat. Appl. Publ., 38 pp., Cont.-in-part of U.S. SOURCE:

Ser. No. 604,958.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020127681	A1	20020912	US 2001-995587	20011129
US 6730502	B2	20040504		
US 6635460	B1	20031021	US 2000-604958	20000628
US 20040185537	A1	20040923	US 2004-791799	20040304
PRIORITY APPLN. INFO.:			EP 2000-201872 A	20000525
			US 2000-604958 A2	20000628
			US 2001-995587 A2	20011129

The present invention describes two novel proteins having AB fructosyltransferase activity. Both enzymes are derived from lactobacilli, which are food-grade micro-organisms with the Generally Recognized As Safe (GRAS) status. One of these proteins produces an inulin and fructo-oligosaccharides, while the other produces a

levan and fructo-oligosaccharides. According to the invention lactobacilli capable of producing an **inulin** and/or a levan and/or fructo-oligosaccharides using one or both of the

fructosyltransferases can be used as a probiotic or a symbiotic.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 15 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:615448 CAPLUS

DOCUMENT NUMBER: 137:165817

TITLE: Synthesis, compositions and methods for the

measurement of the concentration of stable-isotope

labeled compounds in life forms and life form

excretory products

Groman, Ernest V.; Reinhardt, Christopher P. INVENTOR(S):

Biophysics Assay Laboratory, Inc., USA PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	FENT :	NO.			KIN	D	DATE								D	ATE	
	2002								1						2	0020	131
	W:	CO, GM,	CR, HR,	CU, HU,	CZ, ID,	DE, IL,	AU, DK, IN,	DM, IS,	DZ, JP,	EC, KE,	EE, KG,	ES, KP,	FI, KR,	GB, KZ,	GD, LC,	GE, LK,	GH, LR,
		PL,	PT,	RO,	RU,	SD,	MD, SE, ZA,	SG,	SI,	•	•	•	•	•	•	•	•
	R₩:	CY,	DE,	DK,	ES,	FI,	MZ, FR, CM,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,
	2003 7048	0059	368	·	A1	·	2003	0327									
AU	2002 1399	2501	38		A1			0819									_
		IE,	SI,	LT,	LV,	FI,	•	MK,	CY,	AL,	TR	·	·	·	·	·	·
	IE, SI, LT US 20060067881 ORITY APPLN. INFO.:				A1		2006	0330	1	US 2	001-	2666 6065	47P 2]	P 2 A3 2	0051 0010 0020 0020	205 130

AΒ Stable isotope labeling and neutron activation to measure biol. functions are provided, as are the use and method of adding a chemical monitor to correct for neutron flux to sample vials prior to the addition of sample is presented, and the use of stable isotopes as a chemical bar code for vials and other items. Methods are provided also for measuring glomerular filtration rate and glomerular sieving function in a subject, and for measuring other physiol. functions.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 16 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN L6

ACCESSION NUMBER: 2002:224782 CAPLUS

DOCUMENT NUMBER: 137:62246

TITLE: New solvent-producing Clostridium sp. strains, hydrolyzing a wide range of polysaccharides, are

closely related to Clostridium butyricum

AUTHOR(S): Montoya, D.; Arevalo, C.; Gonzales, S.; Aristizabal,

F.; Schwarz, W. H.

CORPORATE SOURCE: Institute of Biotechnology, Universidad Nacional de

Colombia, Santafe de Bogota, AA 14490, Colombia

SOURCE: Journal of Industrial Microbiology & Biotechnology

(2001), 27(5), 329-335

CODEN: JIMBFL; ISSN: 1367-5435

PUBLISHER: Nature Publishing Group

DOCUMENT TYPE: Journal LANGUAGE: English

AB Thirteen new Clostridium strains, previously isolated from soil and found to produce high amts. of solvents from glucose, hydrolyzed a great variety of $\alpha-$ and $\beta-$ glycans, including raw starch, xylan, pectin, inulin and cellulose. The sequences of the PCR-amplified DNA fragments containing the variable 3' part of one of the 16S rRNA genes were 99.5% identical. The macrorestriction pattern of two endonucleolytic digests of chromosomal DNA in the pulsed-field gel electrophoresis (PFGE) confirmed their high homogeneity on the DNA level. The complete 16S rRNA gene sequence of three selected strains was 99.8% identical to the 16S rRNA gene sequence from Clostridium butyricum and separates them from C. acetobutylicum. To the closely related four species of solventogenic clostridia a new group of strains has to be added, which has a great potential for the direct fermentation of biomass.

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 17 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:123604 CAPLUS

DOCUMENT NUMBER: 136:169281

TITLE: Physical forms of clarified hydrocolloids of

undiminished properties and method of producing same

INVENTOR(S): Renn, Donald Walter; Blake, Nancy Amelia

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 31 pp., Cont.-in-part of U.S.

Ser. No. 609,870.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLIC	CATION NO.	DATE
US 20020019447	A1 20020		01-804402	20010313
US 6586590	B1 20030	0701 US 200	00-609870	20000703
WO 2002072687	A2 20020	0919 WO 200	02-CA334	20020311
WO 2002072687	A3 20031	1023		
W: AE, AG, A	L, AM, AT, AU,	AZ, BA, BB, B	BG, BR, BY, BZ,	CA, CH, CN,
CO, CR, C	U, CZ, DE, DK,	DM, DZ, EC, E	EE, ES, FI, GB,	GD, GE, GH,
GM, HR, H	U, ID, IL, IN,	IS, JP, KE, F	KG, KP, KR, KZ,	LC, LK, LR,
LS, LT, L	U, LV, MA, MD,	MG, MK, MN, N	MW, MX, MZ, NO,	NZ, OM, PH,
PL, PT, R	O, RU, SD, SE,	SG, SI, SK, S	SL, TJ, TM, TN,	TR, TT, TZ,
UA, UG, U	S, UZ, VN, YU,	ZA, ZM, ZW		
RW: GH, GM, K	E, LS, MW, MZ,	SD, SL, SZ, T	IZ, UG, ZM, ZW,	AM, AZ, BY,
KG, KZ, M	O, RU, TJ, TM,	AT, BE, CH, C	CY, DE, DK, ES,	FI, FR, GB,
GR, IE, I	Γ, LU, MC, NL,	PT, SE, TR, E	BF, BJ, CF, CG,	CI, CM, GA,
GN, GQ, G	W, ML, MR, NE,	SN, TD, TG		
AU 2002245960	A1 20020	0924 AU 200	02-245960	20020311

PRIORITY APPLN. INFO.: US 2000-609870 A2 20000703 US 2001-804402 A 20010313

US 2001-804402 A 20010313 WO 2002-CA334 W 20020311

AB This invention relates to novel forms of clarified hydrocolloids including gels, films, foams, capsules and sponges. The invention also pertains to novel processes for producing the various phys. forms of the clarified hydrocolloids such as konjac glucomannan, locust bean gum, guar gum, aloe acemannan and xanthan gum. The invention also includes clarified hydrocolloid composites; borated cis- 1,2-diol containing hydrocolloids; and clarified hydrocolloids of low viscosity.

L6 ANSWER 18 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:868644 CAPLUS

DOCUMENT NUMBER: 136:17259

TITLE: Purification, characterization and use of inulosucrase

and levansucrase from Lactobacillus reuteri

INVENTOR(S): Van Geel-Schutten, Gerritdina Hendrika; Rahaoui,

Hakim; Dijkhuizen, Lubbert; Van Hijum, Sacha Adrianus

Fokke Taco

PATENT ASSIGNEE(S): Nederlandse Organisatie Voor

Toegepast-Wetenschappelijk Onderzoek, Neth.

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

	TENT						DATE				LICAT	-				ATE		
WO	2001 2001	0903	19		A2						2001-					0010	523	
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	, BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	, EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	, KG,	ΚP,	KR,	KΖ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	, MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	, TM,	TR,	TT,	TZ,	UA,	UG,	US,	
		UZ,	VN,	YU,	ZA,	ZW												
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		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙT,	, LU,	MC,	NL,	PT,	SE,	TR,	BF,	
		ΒJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML	, MR,	ΝE,	SN,	TD,	ΤG			
											2001-							
	1283									EP 2	2001-	9346	30		2	0010	523	
EP	1283																	
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											, TR							
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					Т3		2008	1201			2001-					0010		
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AB The present invention describes two novel proteins having fructosyltransferase activity. One of the enzymes is an inulosucrase which produces an inulin and fructo-oligosaccharides, while the other is a levansucrase which produces a levan. Both enzymes are derived from Lactobacillus reuteri, which are food-grade microorganisms with the Generally Recognized As Safe (GRAS) status. Isolation of DNA from L. reuteri, nucleotide sequence anal. of the inulosucrase (ftfA) gene, construction of plasmids for expression of the inulosucrase gene in E.

coli Top10, expression of the inulosucrase gene in E. coli Top10 and identification of the polysaccharides produced by the recombinant enzyme are described. Purification and amino acid sequencing of the L. reuteri levansucrase (gene ftfB) and nucleotide sequence of the gene ftfB are reported. According to the invention lactobacilli capable of producing an inulin and/or a levan and/or fructo-oligosaccharides using one or both of the fructosyltransferases can be used as a probiotic or a symbiotic.

L6 ANSWER 19 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:12577 CAPLUS

DOCUMENT NUMBER: 134:87953

TITLE: Bleach activator based on inulin

INVENTOR(S): Bolkenbaas, Mariette Ellen Boukje; Raaijmakers,

Henricus Wilhelmus Carolina; Kuzee, Hendrika Cornelia;

Van Doren, Hendrik Arend; Haaksman, Ingrid Karin

PATENT ASSIGNEE(S): Cooperatie Cosun U.A., Neth.

SOURCE: PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	TENT	NO.			KINI)	DATE			APPL	ICAT	ION 1	NO.		D	ATE		
WO	2001	 0007	 71		A1	_	2001	0104		 WO 2	000-	 NL46:	 2		2	0000	630	
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	ВG,	BR,	BY,	CA,	CH,	CN,	CR,	
		CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	
		ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	
		LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	
		•	•	•	•	•	TM,	•			•		•	•	•	•	•	ZW
	RW:						MZ,											
		•		•	•	•	GB,	•	•	•	•	•			•	•	•	
		•			•		GN,								·	·	·	
NL	1012	482	·	·	C2	·	2001	0103		NL 1	999-	1012	482		19	9990	630	
CA	2377	312			A1		2001	0104	1	CA 2	000-	2377:	312		2	0000	630	
EP	1190	034			A1		2002	0327		EP 2	000-	9444	71		2	0000	630	
EP	1190	034			В1		2004	1103										
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		ΙE,	SI,	LT,	LV,	FI,	RO											
JP	2003	5035	83		Τ		2003	0128		JP 2	001-	5067	66		2	0000	630	
AT	2815	09			Τ		2004	1115		AT 2	000-	9444	71		2	0000	630	
ES	2231	215			Т3		2005	0516		ES 2	000-	9444	71		2	0000	630	
RIORIT	Y APP	LN.	INFO	. :						NL 1	999-	1012	482		A 1	9990	630	
									,	WO 2	000-	NL46	2	1	W 2	0000	630	
				_						_					_	_		

AB A partially acylated fructan, in particular a partially acylated inulin, having a degree of substitution with acyl groups of 0.4-2.5 and a degree of substitution of at most 0.2 with other substituents is used as a bleach activator. The solubility and efficiency of these derivs. is better than that of comparable products such as completely acylated derivs. and carboxylated derivs. The derivs. are prepared by acylation in an aqueous medium under controlled pH.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 20 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:322866 CAPLUS

DOCUMENT NUMBER: 133:134225

TITLE: Isolation of mesophilic solvent-producing clostridia

from Colombian sources: physiological characterization, solvent production and

polysaccharide hydrolysis

AUTHOR(S): Montoya, D.; Spitia, S.; Silva, E.; Schwarz, W. H. CORPORATE SOURCE: Institute of Biotechnology, National University of

Colombia, Santafe de Bogota, AA 14490, Colombia

SOURCE: Journal of Biotechnology (2000), 79(2), 117-126

CODEN: JBITD4; ISSN: 0168-1656

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB One hundred and seventy-eight new butanol-acetone producing bacteria related to saccharolytic clostridia were isolated from agricultural sources in Colombia and their fermentation potential was evaluated. Thirteen isolates produced more total solvents from glucose than Clostridium acetobutylicum ATCC 824. The isolates with the highest single solvent production were IBUN 125C and IBUN 18A with 0.46 mol butanol and 0.96 mol ethanol formed from 1 mol glucose, yielding 25.2 and 29.1 g L-1 total solvents, resp., which is close to the maximum values described to date. Most of the new isolates produced exoenzymes for the hydrolysis of starch, CM-cellulose, xylan, polygalacturonic acid, inulin and chitosan. Together with the high efficiency of solvent production, these hydrolytic isolates may be useful for the direct fermentation of biomass. According to their physiol. profile, the most solvent-productive isolates could be classified as strains of C. acetobutylicum, Clostridium beijerinckii, and Clostridium NCP262.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 21 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1999:549231 CAPLUS

DOCUMENT NUMBER: 131:186471

TITLE: Process for controlling scale in the sugar process

INVENTOR(S): Berends, Robert; Kuzee, Hendrika Cornelia

PATENT ASSIGNEE(S): Cooperatie Cosun U.A., Neth.

SOURCE: PCT Int. Appl., 12 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ATENT NO.				KIN)	DATE			APPL	ICAT	ION I	NO.		D	ATE	
WO	9942	410			A1	_	1999	0826	,	WO 1	 999-1	 NL93				9990	
	W:	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,
		ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,
		MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,
		TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZW							
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,	ES,
		FI,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
		CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG						
NL	10083	371			C2		1999	0824		NL 1	998-	1008	371		1	9980.	220
CA	2320	848			A1		1999	0826	1	CA 1	999-	2320	848		1	9990.	222
ΑU	9927	483			Α		1999	0906		AU 1	999-	2748	3		1	9990.	222
ΑU	7492	59			В2		2002	0620									
BR	9908	086			Α		2000	1031		BR 1	999-	8086			1	9990.	222
EP	1060	135			A1		2000	1220		EP 1	999-	9079.	54		1	9990.	222
EP	1060	1060135			В1		2001	1212									

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
     R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,
TR 200002426 T2 20001221 TR 2000-2426 19990222
HU 2001000653 A2 20010730 HU 2001-653 19990222
AT 210611 T 20011215 AT 1999-907954 19990222
JP 2002503498 T 20020205 JP 2000-532368 19990222
PT 1060135 T 20020531 PT 1999-907954 19990222
ES 2168853 T3 20020616 ES 1999-907954 19990222
MX 2000008093 A 20020311 MX 2000-8093 20000818
US 6506258 B1 20030114 US 2000-622477 20001205
RITY APPLN. INFO.: NL 1998-1008371 A 19980220
WO 1999-NL93 W 19990222
PRIORITY APPLN. INFO.:
     The deposition of Ca salts, including CaCO3 and Ca oxalate and the
AB
     formation of foam, during the evaporation of sugar streams can be prevented or
     restricted by adding 0.1-200 ppm of a carboxyalkyl fructan that
     contains 0.5-3 carboxyl groups per monosaccharide unit, 0.4-2.5 of which
     carboxyl groups are in the form of carboxyalkyl groups, especially
     carboxymethyl groups, to the sugar streams. The other carboxyl
     groups can be carboxyl groups obtained by oxidation The
     carboxymethyl fructan, e.g., carboxymethyl
     inulin gives comparable results to polyacrylates, which are less
     desirable from the standpoint of health and the environment.
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 22 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:34991 CAPLUS
DOCUMENT NUMBER:
                          130:92127
                          Proteinases coupled with low-molecular-weight
TITLE:
                           polymeric materials have reduced allergenicity and are
                           useful in a variety of industrial uses.
                           Olsen, Arne Agerlin; Fatum, Tine Muxoll; Deussen,
INVENTOR(S):
                           Heinz-Josef; Roggen, Erwin Ludo
                        Novo Nordisk A/S, Den.
PATENT ASSIGNEE(S):
SOURCE:
                           PCT Int. Appl., 60 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
                           English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO. KIND DATE APPLICATION NO. DATE
     _____
                           ____
                                                ______
                           A1 19990107 WO 1998-DK270
     WO 9900489
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
              DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
              KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
              NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
              UA, UG, UZ, VN, YU, ZW
          RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
              FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
              CM, GA, GN, ML, MR, NE, SN, TD, TG
                   A1 19990107 CA 1998-2294567
A 19990119 AU 1998-80122
     CA 2294567
     AU 9880122
                                                                          19980622
                           B2 20020829
     AU 751880
     EP 1002064 A1 20000524 EP 1998-928182 19980622 EP 1002064 B1 20071010
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI
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 JP 2002516615
 T
 20020604
 JP 1999-505220
 19980622

 CN 100335624
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 20070905
 CN 1998-807497
 19980622

 AT 375387
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 AT 1998-928182
 19980622

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ES 2296336 T3 20080416 ES 1998-928182 19980622 US 6303752 B1 20011016 US 1998-104623 19980625 PRIORITY APPLN. INFO.: DK 1997-753 A 19970625 US 1997-51830P P 19970707 WO 1998-DK270 W 19980622
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AB The present invention relates to modified polypeptides with reduced respiratory allergenicity having coupled polymeric mols. with a mol. weight from 100 up to 750 Da, covalently conjugated to the parent polypeptide having a mol. weight from 5 to 100 kDa. Contrary to expectations, short/light polymeric mols. are capable of shielding the surface of the polypeptide sufficiently to reduce allergenicity. Thus, when mPEG 350 is activated with N-succinimidyl carbonate and conjugated with Bacillus proteinase PD498 or subtilisin Y, the resulting products demonstrate reduced IgE response (i.e., allergenicity) than the native enzymes in brown Norway rat intratrachaeal trials. Industrial compns. comprising modified polypeptide with reduced respiratory allergenicity have uses such as skin care products.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 23 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:742255 CAPLUS

DOCUMENT NUMBER: 130:17234

TITLE: Preparation of microsphere drug delivery systems

INVENTOR(S): Wu, Xiao Yu; Liu, Zhi

PATENT ASSIGNEE(S): Can.

SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	PATENT NO.				KINI)	DATE			APPL	ICAT	ION I	NO.		D.	ATE	
WO	9850	018			A1	_	1998	1112	,	WO 1	998-0	CA41	9		1	9980	506
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		KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,
		NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TR,	TT,
		UA,	UG,	US,	UΖ,	VN,	YU,	ZW									
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	DE,	DK,	ES,
		FI,	FR,	GB,	GR,	IE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
		CM,	GΑ,	GN,	ML,	MR,	NE,	SN,	TD,	ΤG							
CA	2288	876			A1		1998	1112	1	CA 1	998-	2288	876		1	9980	506
AU	9872	019			Α		1998	1127		AU 1	998-	7201	9		1	9980	506
PRIORITY	APP	LN.	INFO	. :						US 1	997-	4571	0P]	P 1	9970	506
									,	WO 1	998-0	CA41	9	Ţ	W 1	9980	506

AB A drug delivery composition comprising microspheres containing at least one chemotherapeutic agent and at least 1 chemosensitizer wherein the microspheres have a biodegradable polymer matrix with functional groups which associate with the chemotherapeutic agent and chemosensitizer is described. Carboxymethyl dextran microspheres were prepared and mixed with 1% verapamil or doxorubicin aqueous solution. The microspheres showed

sustained drug release.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 1998:550497 CAPLUS

DOCUMENT NUMBER: 129:172134 ORIGINAL REFERENCE NO.: 129:34902a

TITLE: Protein-polymer conjugates with reduced immunogenicity

and allergenicity

INVENTOR(S): Von Der Osten, Claus; Olsen, Arne Agerlin; Roggen,

Erwin Ludo

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den. SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

			KIN		DATE				LICAT				D	ATE			
WO	9835	026									L998-1				1	9980	206
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		GΑ,	GN,	ML,	MR,	ΝE,	SN,	TD,	ΤG								
CA	2279	986			A1		1998	0813		CA 1	L998-:	2279	986		1	9980	206
AU	9857	495			Α		1998	0826		AU 1	L998-	5749.	5		1	9980	206
AU	7402	07			В2		2001	1101									
EP	1017	794			A1		2000	0712		EP 1	L998-	9013.	27		1	9980	206
	R:	BE,	CH,	DE,	ES,	FR,	GB,	ΙΤ,	LI,	NL							
JP	2001	5111	62		Τ		2001	0807		JP 1	L998-	5335	84		1	9980	206
US	6245	901			В1		2001	0612		US 1	L998-:	2453.	2		1	9980	217
US	6623	950			В1		2003	0923		US 2	2000-	7051	85		2	0001	102
US	2005	0079	593		A1		2005	0414		US 2	2003-	6232	92		2	0030	718
ORIT	Y APP	LN.	INFO	.:						DK 1	L997-	135		Ž	A 1	9970	206
										WO 1	L998-1	DK46		Ī	W 1	9980	206
										US 1	1998-	2453.	2	i	A3 1	9980	217
										US 2	2000-	7051	85	2	A3 2	0001	102

AB The present invention relates to protein-polymer conjugates in which one or more attachment groups for coupling polymeric mols. on the surface of the protein structure have been added and/or removed, a method for preparing protein-polymer conjugates of the invention, the use of said conjugated for reducing the immunogenicity and allergenicity, and compns. comprising said conjugate for use in pharmaceuticals, skin care products, food and feed. Thus, the proteins are modified by conservative substitution of Lys for Arg, Asp or Glu for Asn or Gln, or vice-versa to provide more attachment sites away from the functional site(s) and to remove attachment sites in the vicinity of the functional site(s). Then, using known methods, polymeric materials such as PEG are attached to the modified protein. Humicola lanuginosa lipase was mutagenized to prepare 87K, 254K-lipase. This mutant was conjugated to PEG 15,000 to prepare a lipase with reduced antigenicity.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 25 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:493671 CAPLUS

DOCUMENT NUMBER: 129:126923

ORIGINAL REFERENCE NO.: 129:25891a,25894a

TITLE: Enzyme coupled with polymeric molecules for skin care

INVENTOR(S): Olsen, Arne Agerlin; Prento, Annette

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den. SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	PATENT NO.		KIN	D :	DATE			APP]	LICAT	ION I	NO.		D.	ATE			
WO	9830	682			A1		1998	0716	1	WO :	1998-	DK15			1	9980	112
	W:	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR	, BY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK,	EE,	ES,	FΙ,	GB,	GE,	GH,	GM,	GW,	, HU,	ID,	IL,	IS,	JP,	KΕ,	KG,
		KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU	, LV,	MD,	MG,	MK,	MN,	MW,	MX,
		NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG	, SI,	SK,	SL,	ΤJ,	TM,	TR,	TT,
		UA,	UG,	US,	UZ,	VN,	YU,	ZW									
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	, AT,	BE,	CH,	DE,	DK,	ES,	FI,
		FR,	GB,	GR,	IE,	ΙΤ,	LU,	MC,	NL,	PT,	, SE,	BF,	ВJ,	CF,	CG,	CI,	CM,
		GΑ,	GN,	ML,	MR,	ΝE,	SN,	TD,	ΤG								
CA	2277	618			A1		1998	0716	(CA :	1998-	2277	618		1	9980	112
AU	9854	785			Α		1998	0803		AU :	1998-	5478	5		1	9980	112
AU	7368	06			В2		2001	0802									
EP	9545	72			A1		1999	1110		EP :	1998-	9002	74		1	9980	112
	R:	BE,	DE,	ES,	FR,	GB,	IT,	NL									
JP	2002	5109	63		Τ		2002	0409		JP :	1998-	5304	83		1	9980	112
US	6416	756			В1		2002	0709	1	US :	1998-	1953.	2		1	9980.	205
PRIORITY	Y APP	LN.	INFO	.:						DK :	1997–	38		i	A 1	9970	110
										DK :	1997-	754		1	A 1	9970	625
									1	US :	1997-	5183	1P]	P 1	9970	707
									1	WO :	1998-	DK15		Ţ	W 1	9980	112

AB The present invention relates to modified enzymes suitable for skin care having from 4 to 70 polymeric mols., with a mol. weight from 1 to 35 kDa, coupled covalently to the surface of parent enzymes having a mol. weight from 15 to 100 kDa. Further the invention is directed towards skin care compns. and products comprising such modified enzymes and finally the use of said modified enzyme for reducing the sensitization potential of skin care products.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 26 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:405992 CAPLUS

DOCUMENT NUMBER: 129:82947

ORIGINAL REFERENCE NO.: 129:17103a,17106a

TITLE: Manufacture of fructan-polycarboxylic acid

INVENTOR(S): Kuzee, Hendrika Cornelia; Bolkenbaas, Mariette Ellen

Boukje; Raaijmakers, Henricus Wilhelmus Carolina

PATENT ASSIGNEE(S): Cooperatie Cosun U.A., Neth.; Kuzee, Hendrika

Cornelia; Bolkenbaas, Mariette Ellen Boukje;

:Raaijmakers, Henricus

SOURCE: PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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                      A1
    WO 9825972
                            19980618 WO 1997-NL677
                                                           19971209
       W: AU, CA, JP, NZ, US
       RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
    NL 1004738 C2 19980611 NL 1996-1004738 19961210
    AU 9853457
                      A 19980703
                                      AU 1998-53457
                                                           19971209
PRIORITY APPLN. INFO.:
                                       NL 1996-1004738
                                                        A 19961210
                                       WO 1997-NL677 W 19971209
AΒ
    The title acids and their salts, in which \geq 0.05 of every 3
    hydroxymethyl(ene) groups has been converted into a carboxyl group and
    ≥0.1 of every 3 OH groups has been converted into a carboxymethoxy
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hydroxymethyl(ene) groups has been converted into a carboxyl group and ≥0.1 of every 3 OH groups has been converted into a carboxymethoxy (or other carboxyalkyl or carboxyacyl) group, have an improved action as crystal growth-inhibiting, Ca-binding and/or -dispersing agents. A process for their manufacture by oxidation of fructan followed by carboxymethylation of oxidized product, or by performing the reactions in reverse order, and their use in detergents, cleaning agents, H2O treatment agents, textile treatment agents, papermaking and removal of heavy metals is also claimed. Thus, oxidized, carboxymethylated inulin having Ca binding capacity 0.6-1.5 mmol Ca/g was manufactured by oxidation of inulin with NaOCl followed by

carboxymethylation with C1CH2CO2Na.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 27 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:219837 CAPLUS

DOCUMENT NUMBER: 128:258727

ORIGINAL REFERENCE NO.: 128:51201a,51204a

TITLE: Cationic fructan derivatives and manufacture and uses

thereof

INVENTOR(S): Kuzee, Hendrika Cornelia; Bolkenbaas, Mariette Ellen

Boukje; Jonker, Ronald

PATENT ASSIGNEE(S): Cooperatie Cosun U.A., Neth.; Kuzee, Hendrika

Cornelia; Bolkenbaas, Mariette Ellen Boukje; Jonker,

Ronald

SOURCE: PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
		WO 1997-NL543	19970930
W: AU, CA, JP,	•		
RW: AT, BE, CH,	DE, DK, ES, FI, F	R, GB, GR, IE, IT, LU,	MC, NL, PT, SE
NL 1004153	C2 19980331	NL 1996-1004153	19960930
CA 2269540	A1 19980409	CA 1997-2269540	19970930
CA 2269540	C 20060919		
AU 9744025	A 19980424	AU 1997-44025	19970930
AU 719739	B2 20000518		
EP 918800	A1 19990602	EP 1997-942300	19970930
EP 918800	B1 20020102		
R: AT, BE, CH,	DE, DK, ES, FR, G	B, GR, IT, LI, LU, NL,	SE, MC, PT,
IE, FI			
JP 2001505594	T 20010424	JP 1998-516396	19970930
JP 4181221	B2 20081112		
NZ 334805	A 20010427	NZ 1997-334805	19970930
AT 211490	T 20020115	AT 1997-942300	19970930

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T 20020531 PT 1997-942300 19970930
T3 20020701 ES 1997-942300 19970930
A1 20020627 US 1999-269028 19990318
NL 1996-1004153 A 19960930
WO 1997-NL543 W 19970930
         PT 918800
         ES 2169424
         US 20020082399
PRIORITY APPLN. INFO.:
```

OTHER SOURCE(S): MARPAT 128:258727

The title compds., such as inulin, contain a nitrogen atom having substituents R1, R2 and R3 bonded to one or more anhydrofructose units via a straight-chain or branched C2-6 alkylene group, which is optionally preceded by a carbonyl group or interrupted by one or two oxygen atoms or imino or alkylimino groups and optionally substituted by one or two hydroxyl groups or amine groups or a carboxyl or carbamoyl group; R1, R2 = H, Me, carboxymethyl, phosphonomethyl, Et, hydroxyethyl, Pr, iso-Pr, allyl, hydroxypropyl, dihydroxypropyl or, together with the nitrogen atom, form a cyclic group; R3 = H, C1-18 alkyl, C3-18 alkenyl, alkynyl, cycloalkyl, C4-18 cycloalkylalkyl, C7-18 aralkyl or is bonded via an alkylene group to an oxygen atom of a subsequent anhydrofructose unit. Chicory inulin was treated with 3-chloro-2-hydroxypropyltrimethylammonium chloride to obtain a light-brown cationic inulin of N content 5.44% (degree of substitution 1.53). A conditioning shampoo comprised demineralized water 53.3, Lexaine C 8, Loramide LM 1.2, Standapol ES-2 32, Miranol C2M SF 2.5, the above cationic inulin 2, Germall 115 0.25, fragrance 0.25, NaCl 0.5, and citric acid to 100%.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 28 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:550155 CAPLUS

DOCUMENT NUMBER: 127:220890

ORIGINAL REFERENCE NO.: 127:43057a,43060a

Distribution of substituents in O-TITLE:

carboxymethyl and O-cyanoethyl ethers of

Verraest, Dorine L.; Peters, Joop A.; Kuzee, Hennie AUTHOR(S):

C.; Raaijmakers, Harry W. C.; van Bekkum, Herman

Lab. Organic Chem. Catalysis, Delft Univ. Technology, CORPORATE SOURCE:

Delft, 2628, Neth.

Carbohydrate Research (1997), 302(3-4), 203-212 SOURCE:

CODEN: CRBRAT; ISSN: 0008-6215

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE: English

The distribution of substituents in O-carboxymethyl and O-cyanoethyl ethers of inulin was studied using 13C NMR spectroscopy and HPLC anal. For both types of inulin derivs., the distribution of substituents can be described by the statistical model of Spurlin, showing that the substituents are uniformly distributed along the inulin chains and that the reactivities of the hydroxdyl groups in the sugar units are independent upon substitution of a

neighboring hydroxyl group. The 4-position of the D-fructofuranoxyl units was found to be the most reactive in the etherifications.

REFERENCE COUNT: 2.2 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 29 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN 1.6

ACCESSION NUMBER: 1997:542472 CAPLUS

DOCUMENT NUMBER: 127:189893

ORIGINAL REFERENCE NO.: 127:36833a,36836a TITLE: Modified inulin

INVENTOR(S): Kuzee, Hendrika Cornelia

PATENT ASSIGNEE(S): Cooperatie Cosun U.A., Neth.; Kuzee, Hendrika Cornelia

SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	FENT	NO.			KINI)	DATE		AF	PLICAT	CION	NO.		D	ATE		
WO	9729	 133			A1	_	1997	0814	WC	1997-	 -NL47			1	 9970	210	
	W:	ΑU,	CA,	JP,	NZ,	US											
	RW:	ΑT,	BE,	CH,	DE,	DK,	ES,	FI,	FR, G	B, GR,	IE,	ΙT,	LU,	MC,	NL,	PT,	SE
AU	AU 9716753				A		1997	0828	ΑU	1997-	-1675	3		1	9970	210	
EP	8792	49			A1		1998	1125	EF	1997-	-9027	36		1	9970	210	
EP	8792	49			В1		2001	0905									
	R:	BE,	DE,	FR,	GB,	ΙΤ,	LU,	NL									
PRIORIT	Y APP	LN.	INFO	.:					EF	1996-	-2002	99	Ž	A 1	9960	209	
									WC	1997-	-NL47		Ī	W 1	9970	210	

AB A process is described for producing modified inulin having an average chain length of at least 8 monosaccharide units, which is modified by treatment with a reducing agent, such as hydrogen with a transition metal catalyst, sodium borohydride or electrochem. The reduced inulin can be further modified e.g. by oxidation, carboxyalkylation, hydroxyalkylation or cyanoethylation, or a combined derivatization. It is suitable as a food ingredient or as a pharmaceutical aid.

L6 ANSWER 30 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:954560 CAPLUS

DOCUMENT NUMBER: 124:11296
ORIGINAL REFERENCE NO.: 124:2291a,2294a

TITLE: Carboxymethyl inulin

INVENTOR(S): Verraest, Dorine Lisa; Batelaan, Jan Gerardus; Peters,

Johannes Andreas; Van Bekkum, Herman

PATENT ASSIGNEE(S): Akzo Nobel N. V., Neth. SOURCE: PCT Int. Appl., 15 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
WO 9515984		A1	19950615	WO 1994-EP4097	19941209
W: CA,	JP, US				
RW: AT,	BE, CH,	DE, DK	, ES, FR, GI	B, GR, IE, IT, LU, M	IC, NL, PT, SE
NL 9302163		A	19950703	NL 1993-2163	19931210
CA 2178591		A1	19950615	CA 1994-2178591	19941209
CA 2178591		С	20060321		
EP 733073		A1	19960925	EP 1995-903332	19941209
EP 733073		В1	19970917		
R: AT,	BE, CH,	DE, DK	, ES, FR, GI	B, IT, LI, NL, PT, S	E
JP 09506387		T	19970624	JP 1994-515979	19941209
AT 158307		T	19971015	AT 1995-903332	19941209
ES 2107297		Т3	19971116	ES 1995-903332	19941209
US 5777090		A	19980707	US 1996-663037	19960606
PRIORITY APPLN.	INFO.:			NL 1993-2163	A 19931210
				WO 1994-EP4097	W 19941209

AB Carboxymethyl inulin having a degree of substitution from 0.15 to 2.5, preferably from 0.5 to 1.5, is prepared by reacting inulin at a concentration of ≥ 100 g/L, preferably ≥ 200 g/L,

at elevated temperature with an aqueous alkaline solution of monochloroacetic acid,

followed by working up as usual. The carboxymethyl

inulin is useful as inhibitor for the crystallization of calcium carbonate

in detergent formulation.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 31 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:748188 CAPLUS

DOCUMENT NUMBER: 124:30167

ORIGINAL REFERENCE NO.: 124:5799a,5802a

TITLE: Carboxymethylation of inulin

AUTHOR(S): Verraest, Dorine L.; Peters, Joop A.; Batelaan, Jan

G.; van Bekkum, Herman

CORPORATE SOURCE: Lab. Org. Chem. Catalysis, Delft Univ. Technology,

Delft, 2628 BL, Neth.

SOURCE: Carbohydrate Research (1995), 271(1), 101-12

CODEN: CRBRAT; ISSN: 0008-6215

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB <u>Inulin</u> was <u>carboxymethylated</u> in aqueous alkaline medium with

monochloroacetic acid as the reagent. The degree of substitution of the reaction product was determined by titration, LC anal. and 13C NMR spectroscopy.

 $\underline{\textbf{Carboxymethylinulin}}$ with a degree of substitution between 0.2 and 1 was obtained depending on the molar ratio of **inulin**

-monochloroacetic acid. Increasing the concentration of the reaction mixture and

lowering the reaction temperature resulted in higher selectivities towards **carboxymethylinulin**. Determination of the mol. weight distribution was performed by GPC and by multi-angle laser light scattering.

<u>Carboxymethylation</u> caused little or no degradation of the chain length of the starting material.

L6 ANSWER 32 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:740920 CAPLUS

DOCUMENT NUMBER: 123:147194

ORIGINAL REFERENCE NO.: 123:26173a,26176a

TITLE: <u>Carboxyalkylation</u> of polysaccharides INVENTOR(S): Fuertes, Patrick; Labergerie, Erik

PATENT ASSIGNEE(S): Roquette Freres, Fr. SOURCE: Fr. Demande, 39 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2707649	A1	19950120	FR 1993-8770	19930716
FR 2707649	B1	19950915		
WO 9502614	A1	19950126	WO 1994-FR882	19940713
W. CA. FT.	TP. NO. US			

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.:

FR 1993-8770

A 19930716

AB In the title process, polysaccharides with dextrose equivalent <5, optionally hydrogenated, are subjected to <u>carboxyalkylation</u> or cyanoethylation. Treating a 70% aqueous solution of 100 g hydrogenated starch hydrolyzate (Glucidex 2) with 0.31 mol ClCH2CO2Na (I) over 1.5-2 h at 60° resulted in 90.7% fixation of I. Use of the products as detergent additives and binders is exemplified.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 33 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:468514 CAPLUS

DOCUMENT NUMBER: 122:240341

ORIGINAL REFERENCE NO.: 122:43941a,43944a

TITLE: Preparation of phospholipids and liposome

INVENTOR(S): Sasaki, Atsushi; Murahashi, Naoichi

PATENT ASSIGNEE(S): Dds Kenkyusho Kk, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06271597	А	19940927	JP 1993-58604	19930318
PRIORITY APPLN. INFO.:			JP 1993-58604	19930318
OTHER SOURCE(S):	MARPAT	122:240341		
GI				

AΒ Phospholipids X-T1-(CH2CH2O)n-P(O)(OH)OR [I; X = monosaccharide such as glucose, deoxyglucose, mannose, galactose, fucose, ribose, deoxyribose, rhamnose, xylose, arabinose, erythrose, sialic acid, uronic acid, or hexosamine, O- or N-acyl derivs., O-carboxyalkyl or alkyl derivs., or phosphoric acid or sulfuric acid esters of these monosaccharides, oligosaccharide comprising these monosaccharides and/or the monosaccharide derivs.; T1 = O, NHCO, CONH, O2C, CO2, NHCO2, O2CNH, NHCONH; R = cholesterol or C12-20 linear alkanol residue, CH2CH(T2-R')CH2-T2-R', CH(CH2-T2-R')2, CH(T2-R')CH2-T2-R'; wherein T2 =CH2, group listed in T1; R' = C12-20 linear alkyl; n = 1-8 are prepared A liposome contains phospholipids I. This liposome exhibits orientation to and accumulation in specific organs and is useful as a pharmaceutical carrier. Thus, 2-hydroxyethyl 2,3,4,6-tetra-0-acetyl- β -Dgalactopyranoside (II; R1 = Ac; R2 = H) was condensed with 2-cyanoethyl N,N-diisopropylchlorophosphoramidite in the presence of (Me2CH)2NEt in CH2Cl2 and the resulting phosphoramidite was condensed with 2-(n-hexadecyl)-1-octadecanol in the presence of 1H-tetrazole in MeCN followed by oxidation with H2O2 and deprotection with NaOMe in MeOH/benzene

to give II [R1 = H, R2 = P(O)(OH)OCH2CH(n-C16H33)2] (III). A liposome comprising $L-\alpha$ -dipalmitoylphosphatidylcholine, cholesterol, III, and [3H] <u>inulin</u> was injected to rats and after 15 min to 6 h, the serum concentration of the liposome rapidly decreased, while the concentration in liver

markedly increased.

L6 ANSWER 34 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:457883 CAPLUS

DOCUMENT NUMBER: 121:57883

ORIGINAL REFERENCE NO.: 121:10453a, 10456a

TITLE: Preparation of poly(ethylene glycol)-based lipid and

glycolipids having acidic functional groups as

micro-particle pharmaceutical carriers

INVENTOR(S): Morikawa, Yasuri; Azuma, Kunio; Aono, Katsutoshi;

Sasaki, Atsushi; Murahashi, Naoichi; Sakagami,

Masahiro

PATENT ASSIGNEE(S): Dds Kenkyusho Kk, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 58 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06080686	A	19940322	JP 1992-259090	19920902
PRIORITY APPLN. INFO.:			JP 1992-259090	19920902
GI				

Acidic functional groups-bearing lipid derivs. containing a compound having one or a plural number of acidic functional groups added to one end of polyethylene glycol chain (d.p. \geq 3) and a compound having one or a plural number of C≥5 alkyl and/or alkenyl groups added to the other end of the poly(ethylene glycol) chain, which are useful as micro-particle carriers for drug delivery and not readily trapped by endothelial tissues, are prepared The compds. having acidic functional groups are (1) sugars having acidic functional groups which are preferably one or a plural number of sugars selected from galactose, fucose, mannose, glucose, and derivs. thereof, (2) sialic acid, uronic acid, or compds. having one or a plural number of sialic acid and uronic acid, or (3) compds. having phosphoric acid or its residue, compds. having sulfuric acid or its residue, phosphenic acids, phosphonic acids, sulfonic acids, sulfinic acids, sulfenic acids, or carboxylic acids. The acidic functional group is phosphoric or sulfuric acid residue, phosphenyl, phosphonyl, sulfonyl, sulfinyl, sulfenyl, or carboxyl group. The micro-particle carrier is liposome. Thus, glucuronic acid derivative (I; $R = \beta$ -OAc, R1 = Ac, R2 = Me) was stirred with H(OCH2CH2)3Cl in the presence of BF3.Et2O in CH2Cl2 to give

glycoside α -anomer I [R = α -(OCH2CH2)3Cl, R1 = Ac, R2 = Me] and β -anomer. The α -glycoside was heated NaN3 in DMF at 60° for 20 h to give I [R = α -(OCH2CH2)3N3, R1 = Ac, R2 = Me] which was hydrogenated over Lindlar catalyst in EtOH containing p-MeC6H4SO3H.H2O to give amine salt I.p-MeC6H4SO3H [R = α -(OCH2CH2)3NH2, R1 = Ac, R2 = Me] (II). (C16H33)2CHCO2H was treated with N-hydroxysuccinimide and DCC in CH2Cl2 and condensed with the amine II in the presence of Et3N to give amide I [R = α -(OCH2CH2)3NHCOCH(C16H33)2, R1 = Ac, R2 = Me] which was deacetylated with NaOMe in MeOH and saponified with aqueous NaOH in MeOH to give

I [R = R = α -(OCH2CH2)3NHCOCH(C16H33)2, R1 = R2 = H] (III). A suspension of liposomes prepared from III, L- α -dipalmitoylphosphatidylcholine, and cholesterol and containing 3H-inulin was administered to rats and accumulated in spleen at apprx.1/7 the tissue concentration .apprx.7 times less than that of control liposomes without III.

L6 ANSWER 35 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:289400 CAPLUS

DOCUMENT NUMBER: 120:289400

ORIGINAL REFERENCE NO.: 120:50715a,50718a

TITLE: Manipulation of renal disposition of human recombinant

superoxide dismutase by chemical modification

AUTHOR(S): Mihara, Kiyoshi; Sawai, Kenzo; Takakura, Yoshinobu;

Hashida, Mitsuru

CORPORATE SOURCE: Fac. Pharm. Sci., Kyoto Univ., Kyoto, 606-01, Japan

SOURCE: Biological & Pharmaceutical Bulletin (1994), 17(2),

296-301

CODEN: BPBLEO; ISSN: 0918-6158

DOCUMENT TYPE: Journal LANGUAGE: English

The renal disposition characteristics of superoxide dismutase (SOD) and AΒ its derivs., including macromol. conjugates with polyethylene glycol and carboxymethyl-dextran, cationized derivative, and glycosylated derivs. with galactose and mannose, were studied in the isolated perfused rat kidney. Renal disposition processes, such as glomerular filtration, tubular reabsorption, and uptake from the capillary side, were quant. determined by single-pass indicator dilution expts. under filtering and nonfiltering kidney conditions. Native SOD had a high glomerular filtration rate (40% of that of inulin) and was effectively reabsorbed in the tubules, while no significant uptake was observed from capillary side. Macromol. conjugates showed restricted glomerular filtration due to an increase in mol. size. Cationization of SOD greatly enhanced its association with the tissue, not only from the luminal side but also from the capillary side, based upon electrostatic interaction. Galactosylated and mannosylated SOD showed reduced tubular reabsorption and increased exposure of the luminal surface to the enzyme. In addition, a small but significant uptake of mannosylated SOD from the capillary side was observed This uptake was dose-dependent and completely inhibited by mannan, suggesting that mannose receptor-mediated endocytosis existed in the capillary side of the kidney. Thus, the authors can manipulate the renal disposition profiles of SOD by changing its physicochem. or biol. properties through chemical modification.

L6 ANSWER 36 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:253358 CAPLUS

DOCUMENT NUMBER: 120:253358

ORIGINAL REFERENCE NO.: 120:44703a,44706a

TITLE: Cyclodextrin complexes with polymers, drugs,

agrochemicals and cosmetics

INVENTOR(S): Loftsson, Thorsteinn

PATENT ASSIGNEE(S): Iceland

SOURCE: Eur. Pat. Appl., 46 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.			KIND DATE		APPLICATION NO.			DATE								
					-								_			
EP .	579435			A1		1994	0119	EP	1993-	3052	80		1	9930	706	
EP .	579435			В1		1999	0317									
	R: AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, GI	R, IE,	ΙΤ,	LI,	LU,	MC,	NL,	PT,	SE
US .	5324718			A		1994	0628	US	1992-	9128	53		1	9920	714	
AT :	177647			T		1999	0415	AT	1993-	3052	80		1	9930	706	
ES :	2132190			Т3		1999	0816	ES	1993-	3052	80		1	9930	706	
US .	5472954			A		1995	1205	US	1994-	2405	10		1	9940.	511	
PRIORITY	APPLN.	INFO.	:					US	1992-	9128	53		A 1	9920	714	
								EP	1993-	3052	80		A 1	9930	706	

AB A method for enhancing the complexation of a cyclodextrin (I) with a lipophilic and/or water-labile drug, comprising combining .apprx.0.1-70% (weight/volume) of I and .apprx.0.001-5% (weight/volume) of a water-soluble polymer in

an aqueous medium. The polymer and I are dissolved in the aqueous medium before $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

the drug is added. To a solution containing Na CM-cellulose 0.25 and 2-hydroxypropyl- β -cyclodextrin 10% was added acetazolamide (II) and the solution was heated at 120° for 20 min and allowed to equilibrate at room temperature for 3 days and amount of II was determined. The solubility of II was

 $3.11 \mathrm{mg/mL}$ as compared to 0.7 for control containing only II. Different formulations containing cyclodextrin complexes with polymers and drugs are disclosed.

L6 ANSWER 37 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1993:610722 CAPLUS

DOCUMENT NUMBER: 119:210722

ORIGINAL REFERENCE NO.: 119:37399a,37402a

TITLE: Peptides for pharmaceuticals

INVENTOR(S): Myoshi, Teruzo; Mimura, Shuji; Mitsuno, Tooru

PATENT ASSIGNEE(S): Denki Kagaku Kogyo Kk, Japan SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05097694	A	19930420	JP 1992-85092	19920309
JP 3283288	В2	20020520		

PRIORITY APPLN. INFO.: JP 1991-67674 A1 19910308

AB Therapeutic peptides with hyaluronates and polymers are stable and released from the formulation in a controlled manner. For example, an oral formulation was prepared containing Na hyaluronate and human interferon for

treatment of cancer and viral infections.

ANSWER 38 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1993:260763 CAPLUS

DOCUMENT NUMBER: 118:260763

ORIGINAL REFERENCE NO.: 118:45211a,45214a

TITLE: Relationship between chemical properties and

biological properties of pyridoxalated

hemoglobin-polyoxyethylene

AUTHOR(S): Iwashita, Yuji

CORPORATE SOURCE: Cent. Res. Lab., Ajinomoto Co., Inc., Kawasaki, Japan SOURCE: Biomaterials, Artificial Cells, and Immobilization

Biotechnology (1992), 20(2-4), 299-307

CODEN: BACBEU; ISSN: 1055-7172

DOCUMENT TYPE: Journal LANGUAGE: English

Pyridoxalated Hb-polyoxyethylene (PHP) is a conjugate of human Hb with α - carboxymethyl, ω -carboxymethoxypolyoxyethylene (POE). This conjugate is selected as an oxygen carrier for blood substitute because it can survive for a long time in the circulation and also it can transport the same amount of oxygen as red cell. Optimization of PHP has been done by changing the degree of the modification and reaction procedures in order to adjust viscosity and colloid osmotic pressure to physiol. values. The oxygen carrying capacity was phys. evaluated by oxygen equilibrium curves and biol. by an ATP content in perfused isolated liver. Structural relationship of PHP to the binding properties to haptoglobin was studied and the effect of the POE modification on the binding properties was observed when the number of POE per one Hb mol. is over six. Based on the comparative study of solubility of met-PHP and met-SFH, the POE modification was suggested to reduce the toxicity of Hb against organs. Finally phys. properties of PHP at low temperature was discussed in relation to organ preservation.

ANSWER 39 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN 1.6

ACCESSION NUMBER: 1991:663075 CAPLUS

DOCUMENT NUMBER: 115:263075

ORIGINAL REFERENCE NO.: 115:44577a,44580a

Skin cosmetics containing modified transglutaminase TITLE: INVENTOR(S): Mori, Kenji; Miyamoto, Tatsu; Nakayama, Hiroshi

PATENT ASSIGNEE(S): Kanebo, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

KIND DATE

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

JP 03083908	3 A	19910409	JP 1989-220789	19890828
PRIORITY APPLN.	INFO.:		JP 1989-220789	19890828
AB Skin cosmet	cics contain tra	nsglutamina	se (EC 2.3.2.13) (I) modified with
H2O-soluble	e substances. I	The cosmetic	s show good skin-co	nditioning and
moisturizir	ng effects and a	re stable a	nd less irritating	to the skin.
Polyethyler	ne glycol (II)	(5.0 g) was	treated with 0.6 g	p-nitrophenyl
chloroforma	ate, CH3CN, and	Et3N at roc	om temperature for 2	4 h to give 4.5 g
activated 1	II. Liver (500	g) of guine	a pigs was homogeni	zed in aqueous sucrose
solution, o	centrifuged, and	l the supern	atant was purified	to give I, which (50
mg) was tre	eated with 100 m	ng the activ	rated II in phosphat	e buffer at room
temperature	e for 24 h and t	reated with	0.5 g glycine to g	ive modified I. Liquid
paraffin 35	5.0, cetyl alc.	5.0, polyox	yethylene sorbitan :	monooleate 7.0,

APPLICATION NO.

DATE

 $\mbox{H2O 51.4, methylparaben 0.1, and the modified I 1.5 weight% were mixed to give a skin cream.}$

L6 ANSWER 40 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1990:545326 CAPLUS

DOCUMENT NUMBER: 113:145326

ORIGINAL REFERENCE NO.: 113:24489a,24492a

TITLE: Virucides containing sulfated carboxymethyl

polysaccharides

INVENTOR(S): Kido, Yasuhito; Yoshida, Osamu; Mizukoshi, Mikio;

Yamamoto, Naoki

PATENT ASSIGNEE(S): Fujirebio, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02178229	A	19900711	JP 1988-329351	19881228
PRIORITY APPLN. INFO.:			JP 1988-329351	19881228

L6 ANSWER 41 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1979:184626 CAPLUS

DOCUMENT NUMBER: 90:184626

ORIGINAL REFERENCE NO.: 90:29321a,29324a

TITLE: Preparation of functionalized derivatives of

inulin: conjugation of erythrocytes for

hemagglutination and plaque-forming cell assays

AUTHOR(S): Chien, C. C.; Lieberman, Rose; Inman, John K.

CORPORATE SOURCE: Natl. Inst. Allergy Infect. Dis., NIH, Bethesda, MD,

USA

SOURCE: Journal of Immunological Methods (1979), 26(1), 39-46

CODEN: JIMMBG; ISSN: 0022-1759

DOCUMENT TYPE: Journal LANGUAGE: English

L6

AB A method is described for preparing derivs. of alkali-stable polysaccharides for coupling to immunogen carriers or to sheep red blood cells (SRBC) for use in hemagglutination (HA) and plaque-forming cell assays.

Inulin, a $\beta(2 \to 1)$ -linked polyfructosan was partially derivatized with carboxyl, aminoethyl, or (p-aminophenyl)butyryl groups; the latter derivative was coupled to SRBC following diazotization. Optimal conditions for the sensitization of SRBC with **inulin** were given. The immunol. reactivity of the **inulin** mol. was unaffected by the derivatization reactions, and high, reproducible anti-**inulin** HA titers for **inulin**-binding myeloma proteins were found using these specifically sensitized SRBC. The sensitized SRBC were stable for

these specifically sensitized SRBC. The sensitized SRBC were stable for assays for over 2 wk. Problems with spontaneous agglutination or distortion of sensitized SRBC, normally seen in other procedures, e.g., methods using stearoyl-inulin, were not encountered.

ANSWER 42 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1973:111644 CAPLUS

DOCUMENT NUMBER: 78:111644

ORIGINAL REFERENCE NO.: 78:17935a,17938a

TITLE: Preparation of carbonates of polysaccharides and

cycloamyloses

AUTHOR(S): Kennedy, J. F.; Tun, H. Cho

CORPORATE SOURCE: Dep. Chem., Univ. Birmingham, Birmingham, UK SOURCE: Carbohydrate Research (1973), 26(2), 401-8

CODEN: CRBRAT; ISSN: 0008-6215

DOCUMENT TYPE: Journal LANGUAGE: English

The preparation of H2O-insoluble carbonates of cellulose, diethylaminoethyl-cellulose, nigeran, and xylan, containing trans-2,3-carbonate groups, is described. The occurrence of a carbonyl peak in the ir spectrum of inulin carbonate at 1820 cm-1, in addition to one corresponding to acyclic carbonate (0-ethoxycarbonyl, 1750 cm-1), was attributable to formation of the strained trans-4,6-carbonate group on the fructofuranose residues of the inulin chain, in addition to the formation of the trans-2,3-carbonate group on the relatively small number of terminal D-glucopyranose residues. The relative contents of acyclic carbonate of the products appeared to be a function of the reaction conditions rather than the availability of a free hydroxyl group at C-6. The presence of carboxyl groups in carboxymethylcellulose and alginic acid prevented the formation of trans and cis-2,3-carbonate groups, resp., but derivatization of alginic acid propylene glycol ester was successful. Specialized procedures were required for the isolation of cyclohexaamylose and cycloheptaamylose carbonates.

L6 ANSWER 43 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1973:1724 CAPLUS

DOCUMENT NUMBER: 78:1724
ORIGINAL REFERENCE NO.: 78:295a,298a

TITLE: Estimation of glomerular filtration rate from plasma

clearance of 51-chromium edetic acid

AUTHOR(S): Chantler, C.; Barratt, T. M.

CORPORATE SOURCE: Dep. Immunol., Inst. Child Health, London, UK SOURCE: Archives of Disease in Childhood (1972), 47(254),

613-17

CODEN: ADCHAK; ISSN: 0003-9888

DOCUMENT TYPE: Journal LANGUAGE: English

AB The glomerular filtration rate obtained by the rate of decrease of plasma edetic acid-51Cr (I) was reproducible and could be correlated with the standard <u>inulin</u> clearance test. The method required an i.v.

injection of I and blood samples at 2 and 4 hr. It is simple and can be applied to children for the management of renal disease.

L6 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1969:71057 CAPLUS

DOCUMENT NUMBER: 70:71057

ORIGINAL REFERENCE NO.: 70:13327a,13330a

TITLE: Ytterbium-169 diethylenetriaminepentaacetic acid

complex. Radiopharmaceutical for brain scanning Hosain, Fazle; Reba, Richard C.; Wagner, Henry N.

AUTHOR(S): Hosain, Fazle; Reba, Richard C.; Wagner, Henry Magner Corporate Source: Johns Hopkins Med. Inst., Baltimore, MD, USA

SOURCE: Radiology (Oak Brook, IL, United States) (1968),

91(6), 1199-203, 1194

CODEN: RADLAX; ISSN: 0033-8419

DOCUMENT TYPE: Journal LANGUAGE: English

169Yb is a γ -emitting isotope with a 32-day phys. half-life; the AΒ photons between 160 and 220 kev. are suitable for brain scanning. 169Yb was chelated with diethylenetriamine-pentaacetate (DTPA); 99% of the i.v. injected dose of the complex was excreted rapidly within 1 day; the remaining 1% was eliminated at a slower rate. The clearance of the complex resembles that of inulin-14C; this finding suggests that it was excreted almost entirely by glomerular filtration. In black mice with exptl. ependymonas, the ratio of 169Yb-DTPA in the tumor compared with brain was greater than 20:1 shortly after i.v. injection. The agent was nontoxic and the radiation dose was comparable with that of other agents. After initial expts. in animals, preliminary trials of its use as a brain-scanning agent were begun. Images comparable with tellurium-99m tetroxide were obtained in patients with brain tumors. 169Yb-DTPA has a long shelf-life and a short biol. half-life; it may replace 203Hg-chlormerodrin as a brainscanning agent.

L6 ANSWER 45 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1963:437276 CAPLUS

DOCUMENT NUMBER: 59:37276
ORIGINAL REFERENCE NO.: 59:6746b-c

TITLE: Cellulose decomposing organisms. IV. Factors affecting

the formation of cellulase. 2

AUTHOR(S): Ikemiya, Masayuki; Yagi, Juichiro; Osumi, Takaharu

CORPORATE SOURCE: Univ. of Nebraska, Lincoln

SOURCE: Hakko Kogaku Zasshi (1961), 39, 586-90

CODEN: HKZAA2; ISSN: 0367-5963

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB cf. CA 59, 1983d.-Ammonia was better than nitrate N as an inorg. N source; (NH4)2SO4 was the best. Peptone, glycine, alanine, and asparagine were the best organic N sources. As the C source, cellobiose, cellulose, inulin, dulcitol, and rhamnose were good; soluble starch, glucose, sucrose, and carboxymethyl cellulose stimulated the growth of the microorganisms but were not good for cellulase formation. In the range of 0.05-4% of cellulose concentration, the lower concentration gave the higher

fermentation rate. Processed cellulose was more readily decomposed than unprocessed or natural cellulose. Among metallic ions, Mo+++ increased the fermentation best, followed by Fe++ while Hg and Ag ions inhibited it.

L6 ANSWER 46 OF 46 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1961:15265 CAPLUS

DOCUMENT NUMBER: 55:15265
ORIGINAL REFERENCE NO.: 55:3014f-h

TITLE: Medicinal preparations with increased ability to enter

the lymphatic system

INVENTOR(S): Hoffman, Josef; Malek, Prokop; Herold, Milos; Capkova,

Jirina; Hermansky, Miroslav; Vondracek, Miloslav;

Kolc, Jiri

DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

CS 90980 19590715 CS

AB If some compds., e.g. antibiotics streptomycin, dihydrostreptomycin, streptothricin, neomycin, viomycin, some alkaloids, local anesthetics, basic cytostatics, antihistaminics, etc., are used in the form of their

salts with high mol. weight anions containing COOH groups, the ability to enter the lymphatic system increases. For example, streptomycin sulfate (10 g., 756 I.U./mg.) was dissolved in 14 ml. H2O and sterile solution mixed with a sterile solution of 15 g. Na carboxymethyl amylose, and lyophilized to give a product of potency 325 I.U./mg. Also, a solution of 25 g. ester-acid obtained by reaction of dextran with succinic anhydride was adjusted to pH 6.5 with 14.2 g. dihydrostreptomycin sulfate, and worked up as above. A solution of 10 g. viomycin sulfate (590 I.U./mg.) was mixed with a Na carboxymethyl derivative (I) of a partially decomposed cherry tree resin, the product separated, decanted, and dissolved in a 9% solution of

to give a solution of potency 30,000 I.U./ml. Powdered morphine-HCl (5 g.) was treated with 12.5 g. dry powdered acid Na <u>carboxymethylated</u>
<u>inulin.</u> The homogeneous powder, when dissolved, gave a preparation convenient for parenteral administration.

Ι